COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No. VA0003077
Effective Date: September 15, 2011
Expiration Date: September 14, 2016

AUTHORIZATION TO DISCHARGE UNDER THE VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM AND THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this permit cover page, and Parts I and II of this permit, as set forth herein.

Owner:	Du Pont Teijin Films U.S. Limited Partnership (DBA DuPont Teijin Films)
Facility Name:	DuPont Teijin Films
County:	Chesterfield
Facility Location:	3600 Discovery Drive

The owner is authorized to discharge to the following receiving stream:

Stream:	James River
River Basin:	James River (Lower)
River Subbasin:	NA
Section:	1o
Class:	II
Special Standards:	PWS

Deputy Regional Director, Piedmont Regional Office

SEPTEMBER 15, 2011

Date

A. Limitations and Monitoring Requirements – Outfall 001

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall number **001 (Dry Weather)** -- HVAC Condensate, Cooling Tower and Boiler Blowdown, Outfall 101, Outfall 102.

a. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS OUTFALL 001	DISCHARGE LIMITS						MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		WEEKLY AVERAGE	Instantaneous MINIMUM	MAXIMUM		FREQUENCY	SAMPLE TYPE
	mg/L	g/d*			mg/L	g/d*		
001 - Flow (MGD)	NL	NL	NA	NA	NL	NL	Continuous	Recorded
002 - pH (standard units) [1]	NA		NA	6.0	9.0		Continuous	Recorded
004 - Total Suspended Solids	NL	100 kg/d [5]	NA	NA	NL	170 kg/d [5]	1/Week	24 HC
005 - Total Residual Chlorine	NL	NL	NA	NA	0.50	NL	1/Week	Grab
012 - Total Phosphorus	2.0	1400 [5]	NA	NA	NL	NL	1/Week	24 HC
013 - Total Nitrogen [2]	NL	NL	NA	NA	NL	NL	1/Week	24 HC
038 – *Interim* DO (Nov – May) [3] [6]	Monthly Average of 3.1 mg/L				NA	NA	1/Day	Grab
317 – *Interim* DO (June – Oct) [3] [6]	Monthly Average of 5.8 mg/L				NA	NA	1/Day	Grab
038 – *Final* DO (Nov – May) [3] [4] [6]	NA	NA	6.0 mg/L	5.0 mg/L	NA	NA	1/Day	Grab
317 – *Final* DO (June – Oct) [3] [4] [6]	5.8	NA	NA	4.3 mg/L	NA	NA	1/Day	Grab
039 - Ammonia as Nitrogen	NL	3600 [5]	NA	NA	NL	7300 [5]	1/Week	24 HC
120 - *E. coli* (geometric mean)	NL		NA	NA	NA	NA	1/Year	Grab
159 - $CBOD_5$	NL	69 kg/d	NA	NA	NL	152 kg/d	1/Week	24 HC

*unless otherwise specified.
[1] See Part I.C.15.
[2] Total Nitrogen is the sum of Total Kjeldahl Nitrogen and Nitrites plus Nitrates.
[3] See Part I.C.10.
[4] See Part I.C.20 for the compliance schedule for dissolved oxygen limitations.
[5] This limitation is expressed in two significant figures.
[6] Dissolved Oxygen limitations are expressed as minimums.

"NA" means not applicable.
"NL" means no limitation is established. Monitoring and reporting are required.
"24 HC" means 24-hour composite.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. Limitations and Monitoring Requirements – Outfall 901

2. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall number **901** – Outfall 001 during wet weather events.

a. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS OUTFALL 901	DISCHARGE LIMITS				MONITORING REQUIREMENTS	
	MONTHLY AVERAGE	WEEKLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
001 - Flow (MG)	NL	NA	NA	NL	1/3 Months	Estimate
003 - BOD_5 (mg/L)	NL	NA	NA	NL	1/Year	Grab
008 - COD (mg/L)	NL	NA	NA	NL	1/Year	Grab
013 - Total Nitrogen (mg/L) [1]	NL	NA	NA	NL	1/Year	Grab
068 - Total Kjeldahl Nitrogen (TKN) (mg/L)	NL	NA	NA	NL	1/Year	Grab
361 - Iron, Total Recoverable (µg/L)	NL	NA	NA	NL	1/Year	Grab
442 - Copper, Total Recoverable (µg/L)	NL	NA	NA	NL	1/3 Months	Grab
448 - Zinc, Total Recoverable (µg/L)	NL	NA	NA	NL	1/3 Months	Grab

"NA" means not applicable.
"NL" means no limitation is established. Monitoring and reporting are required.
"Estimate" means an estimate of the total volume of the discharge during the storm event.
"1/3 Months" means monitoring in accordance with the following schedule: 1st quarter (January 1 – March 31); 2nd quarter (April 1 – June 30); 3rd quarter (July 1 – September 30); 4th quarter (October 1 – December 31)

[1] Total Nitrogen is the sum of Total Kjeldahl Nitrogen and Nitrates plus Nitrites.

b. See Part I.E. for additional storm water management requirements.

c. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. Limitations and Monitoring Requirements – Outfall 101

3. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall number **101** – Process Wastewater Treatment Plant.

a. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS OUTFALL 101	DISCHARGE LIMITS						MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		WEEKLY AVERAGE	MINIMUM	MAXIMUM		FREQUENCY	SAMPLE TYPE
	mg/L	kg/d			mg/L	kg/d		
001 - Flow (MGD) [1]	NL		NA	NA	NL		1/Week	Estimate
003 - BOD_5 (mg/L)	NL	3.2	NA	NA	NL	8.6	1/Week	24 HC
004 - TSS (mg/L)	NL	5.4	NA	NA	NL	18	1/Week	24 HC
273 - Acenaphthene	NL	0.0030	NA	NA	NL	0.0080	1/Year	Grab
204 - Acrylonitrile	NL	0.013	NA	NA	NL	0.0327	1/Year	Grab
216 - Benzene	NL	0.0050	NA	NA	NL	0.0184	1/Year	Grab
236 - Carbon Tetrachloride	NL	0.0024	NA	NA	NL	0.0051	1/Year	Grab
280 - Chlorobenzene	NL	0.0020	NA	NA	NL	0.0038	1/Year	Grab
263 - 1,2,4-Trichlorobenzene	NL	0.0092	NA	NA	NL	0.019	1/Year	Grab
289 - Hexachlorobenzene	NL	0.0020	NA	NA	NL	0.0038	1/Year	Grab
260 - 1,2-Dichloroethane	NL	0.0092	NA	NA	NL	0.0285	1/Year	Grab
218 - 1,1,1-Trichloroethane	NL	0.0028	NA	NA	NL	0.0073	1/Year	Grab
291 - Hexachloroethane	NL	0.0028	NA	NA	NL	0.0073	1/Year	Grab
378 - 1,1-Dichloroethane	NL	0.0030	NA	NA	NL	0.0080	1/Year	Grab
373 - 1,1,2-Trichloroethane	NL	0.0028	NA	NA	NL	0.0073	1/Year	Grab

EFFLUENT CHARACTERISTICS OUTFALL 101	DISCHARGE LIMITS						MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		WEEKLY AVERAGE	MINIMUM	MAXIMUM		FREQUENCY	SAMPLE TYPE
	mg/L	kg/d			mg/L	kg/d		
281 - Chloroethane	NL	0.0140	NA	NA	NL	0.0362	1/Year	Grab
223 - Chloroform	NL	0.0028	NA	NA	NL	0.0062	1/Year	Grab
267 - 2-Chlorophenol	NL	0.0042	NA	NA	NL	0.013	1/Year	Grab
259 - 1,2-Dichlorobenzene	NL	0.010	NA	NA	NL	0.0220	1/Year	Grab
264 - 1,3-Dichlorobenzene	NL	0.0042	NA	NA	NL	0.0059	1/Year	Grab
266 - 1,4-Dichlorobenzene	NL	0.0020	NA	NA	NL	0.0038	1/Year	Grab
258 - 1,1-Dichloroethylene	NL	0.0022	NA	NA	NL	0.0034	1/Year	Grab
262 - 1,2-trans-Dichloroethylene	NL	0.0028	NA	NA	NL	0.0073	1/Year	Grab
268 - 2,4-Dichlorophenol	NL	0.0053	NA	NA	NL	0.0151	1/Year	Grab
261 - 1,2-Dichloropropane	NL	0.0207	NA	NA	NL	0.0311	1/Year	Grab
265 - 1,3-Dichloropropylene	NL	0.0039	NA	NA	NL	0.0059	1/Year	Grab
269 - 2,4-Dimethyphenol	NL	0.0024	NA	NA	NL	0.0049	1/Year	Grab
239 - 2,4-Dinitrotoluene	NL	0.0153	NA	NA	NL	0.0385	1/Year	Grab
240 - 2,6-Dinitrotoluene	NL	0.0345	NA	NA	NL	0.0866	1/Year	Grab
172 - Ethylbenzene	NL	0.0043	NA	NA	NL	0.0146	1/Year	Grab
287 - Fluoranthene	NL	0.0034	NA	NA	NL	0.0092	1/Year	Grab
205 - Methylene Chloride	NL	0.0054	NA	NA	NL	0.012	1/Year	Grab
292 - Methyl Chloride	NL	0.012	NA	NA	NL	0.026	1/Year	Grab
290 - Hexachlorobutadiene	NL	0.0027	NA	NA	NL	0.0066	1/Year	Grab

EFFLUENT CHARACTERISTICS OUTFALL 101	DISCHARGE LIMITS						MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		WEEKLY AVERAGE	MINIMUM	MAXIMUM		FREQUENCY	SAMPLE TYPE
	mg/L	kg/d			mg/L	kg/d		
293 - Napthalene	NL	0.0030	NA	NA	NL	0.0080	1/Year	Grab
294 - Nitrobenzene	NL	0.0036	NA	NA	NL	0.0092	1/Year	Grab
209 - 2-Nitrophenol	NL	0.0055	NA	NA	NL	0.093	1/Year	Grab
272 - 4-Nitrophenol	NL	0.0097	NA	NA	NL	0.0168	1/Year	Grab
270 - 2,4-Dinitrophenol	NL	0.0096	NA	NA	NL	0.0166	1/Year	Grab
208 - 4,6-Dinitro-o-cresol	NL	0.010	NA	NA	NL	0.0374	1/Year	Grab
175 - Phenol	NL	0.0020	NA	NA	NL	0.0035	1/Year	Grab
170 - Bis(2-ethylhexyl) phthalate	NL	0.0139	NA	NA	NL	0.0377	1/Year	Grab
206 - Di-n-butyl phthalate	NL	0.0036	NA	NA	NL	0.0077	1/Year	Grab
285 - Diethyl phthalate	NL	0.011	NA	NA	NL	0.0274	1/Year	Grab
286 - Dimethyl phthalate	NL	0.0026	NA	NA	NL	0.0064	1/Year	Grab
276 - Benzo(a)anthracene	NL	0.0030	NA	NA	NL	0.0080	1/Year	Grab
277 - Benzo(a)pyrene	NL	0.0031	NA	NA	NL	0.0082	1/Year	Grab
271 - 3,4-Benzofluoranthene	NL	0.0031	NA	NA	NL	0.0082	1/Year	Grab
278 - Benzo(k)fluoranthene	NL	0.0030	NA	NA	NL	0.0080	1/Year	Grab
282 - Chrysene	NL	0.0030	NA	NA	NL	0.0080	1/Year	Grab
274 - Acenaphthylene	NL	0.0030	NA	NA	NL	0.0080	1/Year	Grab
275 - Anthracene	NL	0.0030	NA	NA	NL	0.0080	1/Year	Grab
288 - Fluorene	NL	0.0030	NA	NA	NL	0.0080	1/Year	Grab

EFFLUENT CHARACTERISTICS OUTFALL 101	DISCHARGE LIMITS						MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		WEEKLY AVERAGE	MINIMUM	MAXIMUM		FREQUENCY	SAMPLE TYPE
	mg/L	kg/d			mg/L	kg/d		
295 - Phenanthrene	NL	0.0030	NA	NA	NL	0.0080	1/Year	Grab
296 - Pyrene	NL	0.0034	NA	NA	NL	0.0090	1/Year	Grab
220 - Tetrachloroethylene	NL	0.0030	NA	NA	NL	0.0076	1/Year	Grab
222 - Toluene	NL	0.0035	NA	NA	NL	0.011	1/Year	Grab
155 - Trichloroethylene	NL	0.0028	NA	NA	NL	0.0073	1/Year	Grab
173 - Vinyl Chloride	NL	0.0140	NA	NA	NL	0.0362	1/Year	Grab

[1] The design flow of this treatment plant is 0.036 MGD

“NA” means not applicable.
“NL” means no limitation is established. Monitoring and reporting are required.
“24 HC” means 24-hour composite.

A. Limitations and Monitoring Requirements – Outfall 102

4. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall number **102** – Sewage Treatment Plant.

a. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS OUTFALL 102	DISCHARGE LIMITS						MONITORING REQUIREMENTS	
	MONTHLY AVERAGE		WEEKLY AVERAGE		MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
	mg/L	kg/d	mg/L	kg/d				
001 - Flow (MGD) [1]	NL		NA		NA	NL	1/Week	Estimate
003 - BOD_5	30	NL	45	NL	NA	NA	1/Month	Grab
004 - Total Suspended Solids	30	NL	45	NL	NA	NA	1/Month	Grab
120 - *E. coli* (geometric mean)	126 N/100mL		NA		NA	NA	4/Month	Grab (between 10 am and 4 pm)
157 - TRC contact [2]	NA		NA		1.5 mg/L	NA	1/Day	Grab
213 - TRC contact [2]	NA		NA		0.60 mg/L	NA	1/Day	Grab

[1] The design flow of this treatment plant is 0.0090 MGD
[2] See Part I.B.1.

"NA" means not applicable.
"NL" means no limitation is established. Monitoring and reporting are required.
"4/Month" means four samples in one calendar month, collected weekly.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. Limitations and Monitoring Requirements – Outfall 002

5. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall number **002.**– Storm Water.

a. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS OUTFALL 002	DISCHARGE LIMITS				MONITORING REQUIREMENTS	
	MONTHLY AVERAGE	WEEKLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
001 - Flow (MG)	NL	NA	NA	NL	1/Year	Estimate
013 - Total Nitrogen (mg/L) [1]	NL	NA	NA	NL	1/Year	Grab
068 - Total Kjeldahl Nitrogen (TKN) (mg/L)	NL	NA	NA	NL	1/Year	Grab
361 – Iron, Total Recoverable(µg/L)	NL	NA	NA	NL	1/Year	Grab
442 - Copper, Total Recoverable (µg/L)	NL	NA	NA	NL	1/Year	Grab
448 - Zinc, Total Recoverable (µg/L)	NL	NA	NA	NL	1/Year	Grab

"NA" means not applicable.
"NL" means no limitation is established. Monitoring and reporting are required.
"Estimate" means an estimate of the total volume of the discharge during the storm event.

[1] Total Nitrogen is the sum of Total Kjeldahl Nitrogen and Nitrates plus Nitrites.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

c. See Part I.E. for additional storm water management requirements.

A. Limitations and Monitoring Requirements – Outfall 003

6. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall number **003** – Storm Water.

a. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS OUTFALL 003	DISCHARGE LIMITS				MONITORING REQUIREMENTS	
	MONTHLY AVERAGE	WEEKLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
001 - Flow (MG)	NL	NA	NA	NL	1/Year	Estimate
003 - BOD_5 (mg/L)	NL	NA	NA	NL	1/Year	Grab
008 – COD (mg/L)	NL	NA	NA	NL	1/Year	Grab
013 - Total Nitrogen (mg/L) [1]	NL	NA	NA	NL	1/Year	Grab
068 - Total Kjeldahl Nitrogen (TKN) (mg/L)	NL	NA	NA	NL	1/Year	Grab
442 - Copper, Total Recoverable (µg/L)	NL	NA	NA	NL	1/Year	Grab
448 - Zinc, Total Recoverable (µg/L)	NL	NA	NA	NL	1/Year	Grab

"NA" means not applicable.
"NL" means no limitation is established. Monitoring and reporting are required.
"Estimate" means an estimate of the total volume of the discharge during the storm event.

[1] Total Nitrogen is the sum of Total Kjeldahl Nitrogen and Nitrates plus Nitrites.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

c. See Part I.E. for additional storm water management requirements.

A. Limitations and Monitoring Requirements – Outfall 004

7. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall number **004** – Storm Water.

a. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS OUTFALL 004	DISCHARGE LIMITS				MONITORING REQUIREMENTS	
	MONTHLY AVERAGE	WEEKLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
001 - Flow (MG)	NL	NA	NA	NL	1/3 Months	Estimate
013 - Total Nitrogen (mg/L) [1]	NL	NA	NA	NL	1/Year	Grab
068 - Total Kjeldahl Nitrogen (TKN) (mg/L)	NL	NA	NA	NL	1/Year	Grab
361 - Total Recoverable Iron (µg/L)	NL	NA	NA	NL	1/Year	Grab
440 - Cadmium, Total Recoverable (µg/L)	NL	NA	NA	NL	1/3 Months	Grab
442 - Copper, Total Recoverable (µg/L)	NL	NA	NA	NL	1/3 Months	Grab
448 - Zinc, Total Recoverable (µg/L)	NL	NA	NA	NL	1/3 Months	Grab

"NA" means not applicable.
"NL" means no limitation is established. Monitoring and reporting are required.
"Estimate" means an estimate of the total volume of the discharge during the storm event.
"1/3 Months" means monitoring in accordance with the following schedule: 1st quarter (January 1 – March 31); 2nd quarter (April 1 – June 30); 3rd quarter (July 1 – September 30); 4th quarter (October 1 – December 31)

[1] Total Nitrogen is the sum of Total Kjeldahl Nitrogen and Nitrates plus Nitrites.

b. See Part I.E. for additional storm water management requirements.

c. There shall be no discharge of floating solids or visible foam in other than trace amounts.

B. Additional Limitations and Monitoring Requirements – Outfall 102 (Sewage Treatment Plant)

1. Total Residual Chlorine Limitations and Monitoring Requirements Applying to Each Operating Chlorine Contact Tank

   a. The permittee shall monitor the TRC at the outlet of each operating chlorine contact tank once per day by grab sample.
   b. No more than 3 of all samples taken at the outlet of each chlorine contact tank shall be less than 1.5 mg/L for any one calendar month (DMR parameter 157).
   c. No TRC sample collected at each outlet of the chlorine contact tank shall be less than 0.60 mg/L (DMR parameter 213).
   d. If dechlorination facilities exist the samples above shall be collected prior to dechlorination.

2. If chlorine disinfection is not used, then *E. coli* shall be limited and monitored by the permittee as specified below:

	MONTHLY GEOMETRIC MEAN	FREQUENCY	SAMPLE TYPE
E. coli	126 N/100mL	1/Week (between 10 am and 4 pm)	Grab

This *E. coli* requirement, if applicable, shall substitute for the TRC and *E. coli* requirements delineated elsewhere in Part I of this permit.

C. Other Requirements or Special Conditions

1. Notification Levels
   The permittee shall notify the Department as soon as they know or have reason to believe:

   a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

      (1) One hundred micrograms per liter (100 µg/L);
      (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
      (3) Five times the maximum concentration value reported for that pollutant in the permit application; or
      (4) The level established by the Board.

   b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

      (1) Five hundred micrograms per liter (500 µg/L);
      (2) One milligram per liter for antimony (1 mg/L);
      (3) Ten times the maximum concentration value reported for that pollutant in the permit application; or
      (4) The level established by the Board.

2. Operation and Maintenance Manual Requirement

The permittee shall review the existing Operations and Maintenance (O & M) Manual and notify the DEQ Piedmont Regional Office, in writing within 90 days of the effective date of this permit, whether it is still accurate and complete. If the O & M Manual is no longer accurate and complete, a revised O & M Manual shall be submitted for approval to the DEQ Piedmont Regional Office within 90 days of the effective date of this permit. The permittee will maintain an accurate, approved operation and maintenance manual for the treatment works. This manual shall detail the practices and procedures which will be followed to ensure compliance with the requirements of the permit. The permittee shall operate the treatment works in accordance with the approved O&M Manual. This manual shall include, but not necessarily be limited to, the following items, as appropriate:

a. Techniques to be employed in the collection, preservation and analysis of effluent samples;
b. Procedures for measuring and recording the duration and volume of treated wastewater discharged;
c. Discussion of Best Management Practices, if applicable;
d. Procedures for handling, storing, and disposing of all waste, fluids, and pollutants that will prevent these materials from reaching state waters.
e. Treatment works design, treatment works operation, routine preventive maintenance of units within the treatment works, critical spare parts inventory and record keeping;
f. A plan for the management and/or disposal of waste solids and residues.

Any changes in the practices and procedures followed by the permittee shall be documented and submitted for DEQ Piedmont Regional staff approval within 90 days of the effective date of the changes. Upon approval of the submitted manual changes, the revised manual becomes an enforceable part of the permit. Noncompliance with the O & M Manual shall be deemed a violation of the permit.

3. Licensed Operator Requirement

The permittee shall employ or contract at least one Class III licensed wastewater works operator for the process wastewater plant. A Class IV licensed operator is required for the sewage treatment plant. The license shall be issued in accordance with Title 54.1 of the Code of Virginia and the regulations of the Board for Waterworks and Wastewater Works Operators. The permittee shall notify the Department in writing whenever he is not complying, or has grounds for anticipating he will not comply with this requirement. The notification shall include a statement of reasons and a prompt schedule for achieving compliance.

4. 95% Capacity Reopener (Outfall 102)

A written notice and a plan of action for ensuring continued compliance with the terms of this permit shall be submitted to the Piedmont Regional Office when the monthly average flow influent to the sewage treatment plant reaches 95 percent of the design capacity authorized in this permit for each month of any three consecutive month period. The written notice shall be submitted within 30 days and the plan of action shall be received at the Piedmont Regional Office no later than 90 days from the third consecutive month for which the flow reached 95 percent of the design capacity. The plan shall include the necessary steps and a prompt schedule of implementation for controlling any current or reasonably anticipated problem resulting from high influent flows. Failure to submit an adequate plan in a timely manner shall be deemed a violation of this permit.

5. CTC & CTO Requirement (Outfall 102)

The permittee shall, in accordance with the DEQ Sewage Collection and Treatment Regulation (9VAC25-790), obtain a Certificate to Construct (CTC), and a Certificate to Operate (CTO) from the DEQ Office of Wastewater Engineering (for Water Quality Improvement Funded (WQIF) projects) or submitted by the design engineer and owner to the DEQ regional water permit manager (for non WQIF projects) prior to constructing wastewater treatment works and operating the treatment works, respectively. Non-compliance with the CTC or CTO shall be deemed a violation of the permit.

Upon issuance of a CTC for nutrient control technology, DEQ staff shall initiate modification, or alternatively, revocation and reissuance of this permit to include annual concentration limits based on the nutrient removal technology listed in the CTC. Upon issuance of a CTO, any nutrient removal facilities installed shall be operated to achieve design effluent Total Nitrogen and Total Phosphorus concentrations.

6. Reliability Class (Outfall 102)
The permitted sewage treatment works shall meet Reliability Class I.

7. Materials Handling and Storage
Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation, and/or storage of raw or intermediate materials, final product, by-product or wastes, shall be handled, disposed of, and/or stored in such a manner and consistent with Best Management Practices, so as not to permit a discharge of such product, materials, industrial wastes, and/or other wastes to State waters, except as expressly authorized.

8. Nutrient Reopener
This permit may be modified or, alternatively, revoked and reissued:
a. To incorporate technology-based effluent concentration limitations for nutrients in conjunction with the installation of nutrient control technology, whether by new construction, expansion or upgrade, or
b. To incorporate alternative nutrient limitations and/or monitoring requirements, should:
   i. the State Water Control Board adopt new nutrient standards for the water body receiving the discharge, including the Chesapeake Bay or its tributaries, or
   ii. a future water quality regulation or statute require new or alternative nutrient control.

9. Water Quality Criteria Reopener
Should effluent monitoring indicate the need for any water quality-based limitations, this permit may be modified or alternatively revoked and reissued to incorporate appropriate limitations.

10. Compliance Reporting

a. The quantification levels (QL) shall be less than or equal to the following concentrations:

Effluent Parameter	Quantification Level
$cBOD_5$	5 mg/L
BOD_5	5 mg/L
TSS	1.0 mg/L
Total Residual Chlorine	0.10 mg/L
Ammonia-N	0.20 mg/L
Total Phosphorous	0.10 mg/L

The QL is defined as the lowest concentration used to calibrate a measurement system in accordance with the procedures published for the method. It is the responsibility of the permittee to ensure that proper quality assurance/quality control (QA/QC) protocols are followed during the sampling and analytical procedures. QA/QC information shall be documented to confirm that appropriate analytical procedures have been used and the required QLs have been attained. The permittee shall use any method in accordance with Part II A of this permit.

b. **Monthly Average** -- Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in subsection a. of this permit condition shall be determined as follows: All concentration data below the QL used for the analysis (QL must be less than or equal to the QL listed in a. above) shall be treated as zero. All concentration data equal to or above the QL used for the analysis (QL must be less than or equal to the QL listed in a. above) shall be treated as it is reported. An arithmetic average shall be calculated using all reported data for the month, including the defined zeros. This arithmetic average shall be reported on the Discharge Monitoring Report (DMR) as calculated. If all data are below the QL used for the analysis (QL must be less than or equal to the QL listed in a. above), then the average shall be reported as "<QL". If reporting for quantity is required on the DMR and the reported monthly average concentration is <QL, then report "<QL" for the quantity. Otherwise use the reported concentration data (including the defined zeros) and flow data for each sample day to determine the daily quantity and report the monthly average of the calculated daily quantities

Weekly Average -- Compliance with the weekly average limitations and/or reporting requirements for the parameters listed in subsection a. of this permit condition shall be determined as follows: All concentration data below the QL used for the analysis (QL must be less than or equal to the QL listed in a. above) shall be treated as zero. All concentration data equal to or above the QL used for the analysis shall be treated as reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, collected within each complete calendar week and entirely contained within the reporting month. The maximum value of the weekly averages thus determined shall be reported on the DMR. If all data are below the QL used for the analysis, then the weekly average shall be reported as "<QL". If reporting for quantity is required on the DMR and the reported weekly average concentration is <QL, then report "<QL" for the quantity. Otherwise use the reported concentration data (including the defined zeros) and flow data for each sample day to determine the daily quantity and report the maximum weekly average of the calculated daily quantities.

Daily Maximum -- Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in subsection a. of this permit condition shall be determined as follows: All concentration data below the QL used for the analysis (QL must be less than or equal to the QL listed in a. above) shall be treated as zero. All concentration data equal to or above the QL used for the analysis (QL must be less than or equal to the QL listed in a. above) shall be treated as reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, collected within each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are below the QL used for the analysis (QL must be less than or equal to the QL listed in a. above), then the maximum value of the daily averages shall be reported as "<QL". If reporting for quantity is required on the DMR and the reported daily maximum concentration is <QL, then report "<QL" for the quantity. Otherwise use the reported daily average concentrations (including the defined zeros) and corresponding daily flows to determine daily average quantities and report the maximum of the daily average quantities during the reporting month.

Single Datum - Any single datum required shall be reported as "<QL" if it is less than the QL used for the analysis (QL must be less than or equal to the QL listed in a. above). Otherwise the numerical value shall be reported.

c. **Significant Digits** -- The permittee shall report at least the same number of significant digits as the permit limit for a given parameter. Regardless of the rounding convention used by the permittee (i.e., 5 always rounding up or to the nearest even number), the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.

d. For parameters not addressed in paragraph a. above, all concentration data less than the QL used for analysis shall be treated as being equal to the QL used for the analysis in the calculation of any required average concentration or loading. The resulting average shall be reported on the DMR as being less than ("<") that calculated value.

e. The interim dissolved oxygen limitations established in Part I.A.1 of this permit are defined to be monthly average minimums. That is, the monthly average of the dissolved oxygen concentrations must be at or above the effluent limitation in order to be in compliance with the limitation. If more than one dissolved oxygen analysis is made during the 24-hour period that represents a monitoring day, the minimum value only from that day's sampling shall be used in calculating the monthly average minimum. The monthly average minimum shall be reported as the dissolved oxygen concentration "minimum" on the Discharge Monitoring Report.

11. Sludge Use and Disposal (Outfall 102)

The permittee shall conduct all sewage sludge use or disposal activities according to the Sludge Management Plan (SMP) approved with the issuance of this permit. Any proposed changes in sewage sludge use or disposal practices or procedures followed by the permittee shall be documented and submitted for DEQ approval 90 days prior to the effective date of the changes. Upon approval, the revised SMP becomes an enforceable part of the permit. The permit may be modified or alternatively revoked and reissued to incorporate limits or conditions necessitated by substantive changes in sewage sludge use or disposal practices.

12. Sludge Reopener (Outfall 102)
The DEQ may promptly modify or revoke and reissue this permit if any applicable standard for sewage sludge use or disposal promulgated under Section 405(d) of the Clean Water Act is more stringent than any requirements for sludge use or disposal in this permit, or controls a pollutant or practice not limited in this permit.

13. Total Maximum Daily Load (TMDL) Reopener
This permit shall be modified or alternatively revoked and reissued if any approved wasteload allocation procedure, pursuant to Section 303 (d) of the Clean Water Act, imposes wasteload allocation, limits, or conditions on the facility that are not consistent with the permit requirements.

14. Closure Plan
If the permittee plans an expansion or upgrade to replace the existing treatment works, or if facilities are permanently closed, the permittee shall submit to the DEQ Piedmont Regional Office a closure plan for the existing treatment works. The plan shall address the following information at a minimum: Verification of elimination of sources and/or alternate treatment scheme; treatment, removal and final disposition of residual wastewater and solids; removal/demolition/disposal of structures, equipment, piping and appurtenances; site grading, and erosion and sediment control; restoration of site vegetation; access control; fill materials; and proposed land use (post-closure) of the site. The plan should contain proposed dates for beginning and completion of the work. The plan must be approved by the DEQ Piedmont Regional Office prior to implementation

15. pH Excursions
The pH shall be maintained between 6.0 and 9.0 standard units at Outfall 001 except as follows:

a. The total time that pH values are outside the range of 6.0 and 9.0 standard units shall not exceed 7 hours and 26 minutes in any calendar month.

b. No individual excursion outside the range of 6.0 to 9.0 standard units shall exceed 60 minutes.

16. Chilled Water Discharge
Accidental discharges of chilled water to Outfall 001 which are less than or equal to 5000 gallons per day in volume shall be considered an authorized discharge pursuant to this permit and shall be subject to the effluent limitations contained in this permit. (The chilled water contains a nitrite corrosion inhibitor and a fluorescent dye.)

17. Concept Engineering Report
Prior to constructing any treatment works treating industrial wastewaters, the permittee shall submit a Concept Engineering Report (CER) to the DEQ Piedmont Regional Office. DEQ ***written*** approval shall be secured prior to constructing any wastewater treatment works. The permittee shall construct the wastewater treatment works in accordance with the approved CER. No later than 14 days following completion of construction of any project for which a CER has been approved, written notification shall be submitted to the DEQ Piedmont Regional Office certifying that, based on an inspection of the project, construction was completed in accordance with the approved CER. The written notification shall be certified by a professional engineer licensed in the Commonwealth of Virginia or signed in accordance with Part II.K of this permit. The installed wastewater treatment works shall be operated to achieve design treatment and effluent concentrations. Approval by the Department of Environmental Quality does not relive the owner of the responsibility for the correction of design and/or operational deficiencies. Noncompliance with the CER shall be deemed a violation of this permit.

Upon approval of a CER for the installation of nutrient removal technology, DEQ staff shall initiate modification, or alternately, revocation and reissuance of this permit to include annual concentration limits based on the technology proposed in the CER. Upon completion of construction in accordance with a CER that has been approved by the DEQ Piedmont Regional Office, any nutrient removal facilities installed shall be operated to achieve design effluent Total Nitrogen and Total Phosphorus concentrations.

18. Water Quality Criteria Monitoring

The permittee shall monitor the effluent at Outfall 001 for the substances noted in Attachment A, "Water Quality Criteria Monitoring" according to the indicated analysis number, quantification level, sample type and frequency. Monitoring shall be initiated upon completion of the conversion to the Terephthalic Acid-based (TA-based) polymer process. Using Attachment A as the reporting form, the data shall be submitted within 180 days of the above described conversion completion date. Monitoring and analysis shall be conducted in accordance with 40 CFR Part 136 or alternative EPA approved methods. It is the responsibility of the permittee to ensure that proper QA/QC protocols are followed during the sample gathering and analytical procedures. The DEQ will use these data for making specific permit decisions in the future. This permit may be modified or, alternatively, revoked and reissued to incorporate limits for any of the substances listed in Attachment A.

19. Compliance Schedule for Dissolved Oxygen Limitations at Outfall 001

The permittee shall achieve compliance with the final Dissolved Oxygen limitations at Outfall 001 in accordance with the following schedule:

1. Prepare Progress Reports	Annually from the effective date of the permit
2. Achieve Compliance with Final Effluent Limitations	Within 2 years after the effective date of the permit.

No later than 14 calendar days following the dates identified in the above schedule of compliance, the permittee shall submit to the DEQ Piedmont Regional Office, either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial action taken, and the probability of meeting the next scheduled requirement.

The Interim Dissolved Oxygen limitations shall remain in effect until the final limitations are accepted or the compliance schedule concludes, whichever occurs first.

20. Ground Water Sampling Purge

The permittee is hereby authorized to discharge sampling purge water from the ground water monitoring activities associated with the Resource Conservation and Recovery Act (RCRA) Corrective Action Plan. Purge water shall be discharged to the head works of the industrial wastewater treatment plant which discharges through internal outfall 101 and ultimately through Outfall 001. This permit may be modified or, alternatively, revoked and reissued if the Final Remedy under the RCRA Corrective Action identifies an alternative disposal of the sampling purge wastewater or if the purge water is found to interfere or is otherwise incompatible with the industrial wastewater treatment process.

D. Toxics Management Program

1. Biological Monitoring

a. In accordance with the schedule in **Part I.D.2**. below, the permittee shall conduct annual acute toxicity tests for the duration of the permit. The permittee shall collect 24-hour flow-proportioned composite samples of final effluent from outfall 001.

The acute tests to use are:

48 Hour Static Acute Test using *Ceriodaphnia dubia*

These acute tests are to be conducted using a minimum of 5 dilutions, derived geometrically, for calculation of a valid LC_{50}. Express the results as TUa (Acute Toxicity Units) by dividing 100/LC50 for DMR reporting.

b. The test dilutions should be able to assess effluent toxicity at an acute LC50 = 5% equivalent to a TUa of = 20.

c. The permittee may provide additional samples to address data variability. These data shall be reported and may be included in the evaluation of effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40CFR 136.3.

d. The test data will be statistically evaluated by DEQ for reasonable potential at the conclusion of the test period. The data may be evaluated sooner if requested by the permittee, or if toxicity has been noted. Should DEQ evaluation of the data indicate that a limit is needed, the permit may be modified or, alternatively, revoked and reissued to include a WET limitation and compliance schedule. Following written notification from DEQ of the need for including a WET limitation, the toxicity tests of Part I.D.1.a may be discontinued.

e. The permit may be modified or revoked and reissued to include pollutant specific limits should it be demonstrated that toxicity is due to specific parameters. The pollutant specific limits must control the toxicity of the effluent.

2. Reporting Schedule

The permittee shall report the results on the DMR and submit a copy of each toxicity test report in accordance with the following schedule:

Period	**Annual Compliance Period End Date**	**DMR/Report Due Date**
1st Annual	4/30/2012	5/10/2012
2nd Annual	4/30/2013	5/10/2013
3rd Annual	4/30/2014	5/10/2014
4th Annual	4/30/2015	5/10/2015
5th Annual	4/30/2016	5/10/2016

E. Storm Water Management Conditions

1. Storm Water Management Evaluation

The Storm Water Pollution Prevention Plan, (SWPPP), which is to be developed and maintained in accordance with subsection **Part I.E.3** below, shall have a goal of reducing pollutants discharged from all the regulated industrial activity storm water outfalls.

a. Pollutant Specific Screening.

One goal of the SWPPP shall place emphasis on reducing, to the maximum extent practicable, the following pollutants in the outfalls noted below.

OUTFALL NO.	POLLUTANTS	COMPARATIVE VALUE
901	**Total Recoverable Zinc**	**170 ug/L**
901	**Total Recoverable Copper**	**18 ug/L**
004	**Total Recoverable Zinc**	**170 ug/L**
004	**Total Recoverable Copper**	**18 ug/L**
004	**Total Recoverable Cadmium**	**5.0 ug/L**

b. Whole Effluent Toxicity Screening.
With the exception noted in **Part I.E.1.d** below, the permittee shall conduct annual acute toxicity tests on the outfalls noted in a above using grab samples of the discharge from the storm water outfall. These acute screening tests shall be 48-hour static tests using *Ceriodaphnia dubia* and *Pimephales promelas*, conducted in such a manner and at sufficient dilutions for calculation of a valid LC_{50}. The tests shall be conducted on a calendar year basis with one copy of all results and all supporting information submitted with the annual report due by *February 10th* of each year. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3. Additional technical assistance in developing the procedures for these tests will be provided by the Department of Environmental Quality (DEQ), if requested by the permittee. If any of the biological tests are invalidated, an additional test shall be conducted within thirty (30) days of notification. If there is no discharge during this 30-day period, a sample must be taken during the first qualifying discharge.

c. The permittee shall submit the following information with the results of the toxicity tests.

(1) The actual or estimated effluent flow at the time of the sampling.

(2) The time at which the discharge event began, the time at which the effluent was sampled, and the duration of the discharge event.

d. Waiver of Toxicity Screening

The permittee may petition the Department to waive the annual acute toxicity tests and reporting required by **Part I.E.1.b** above when the quarterly monitoring results for total recoverable copper, total recoverable zinc, and total recoverable cadmium as required by **Part I A.2 and 7** of this permit, for the specified outfall are below the comparative value(s) noted in **Part I.E.1.a**. above for four consecutive quarters. The waiver may be implemented upon receipt of written approval from the Department and shall meet all conditions specified therein. All requirements of **Part I.E.1.b** shall remain in effect until the waiver is granted.

If quarterly monitoring results for total recoverable copper, total recoverable zinc or total recoverable cadmium at Outfalls 901 and 004 are detected at or above the comparative values noted in **Part I.E.1.a** after the waiver is granted, the permittee shall resume annual acute toxicity testing and reporting required by **Part I.E.1.b** at the start of the calendar quarter following the date of sample collection. Testing and reporting requirements shall then continue in accordance with **Part I.E.1.b** for the duration of the permit term.

e. The effectiveness of the SWPPP will be evaluated via the required monitoring for all parameters listed in **Part I.A.2, 5, 6 and 7** of this permit for the regulated storm water outfalls, including the specific pollutants noted in a. above and the toxicity screening required by this special condition. Monitoring results that are above the comparative value for the specific pollutants in a. above or, in the case of toxicity, result in an LC50 of less than 100% effluent will justify the need to reexamine the SWPPP and any best management practices (BMPs) being utilized for the affected outfalls. In addition, the permittee shall amend the SWPPP whenever there is a

change in the facility or its operation which materially increases the potential for activities to result in a discharge of significant amounts of pollutants.

By February 10 of each year, the permittee shall submit to the DEQ Piedmont Regional Office an annual report which includes the pollutant-specific and biological monitoring data from the outfalls included in this condition along with a summary of any steps taken to modify either the SWPPP or any BMPs based on the monitoring data.

2. General Storm Water Special Conditions

a. Sample Type.

For all storm water monitoring required in **Part I.A.2, 5, 6 and 7** or other applicable sections of this permit, a minimum of one grab sample shall be taken. Unless otherwise specified, all such samples shall be collected from the discharge resulting from a storm event that occurs at least 72 hours from the previously measurable storm event (a "measurable storm event" is defined as a storm event that results in an actual discharge from the site). The required 72-hour storm event interval is waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted. The grab sample shall be taken during the first 30 minutes of the discharge. In the case of snowmelt, the monitoring must be performed at a time when a measurable discharge occurs at the site. If the collection of a grab sample during the first 30 minutes is impracticable, a grab sample can be taken during the first hour of the discharge, and the permittee shall submit with the monitoring report a description of why a grab sample during the first 30 minutes was impracticable. If storm water discharges associated with industrial activity commingle with process or non-process water, then where practicable permittees must attempt to sample the storm water discharge before it mixes with the non-storm water discharge.

b. Recording of Results.

For each measurement or sample taken pursuant to the storm event monitoring requirements of this permit (except snowmelt monitoring), the permittee shall record and report with the Discharge Monitoring Reports (DMRs) the following information:

(1) The date and duration (in hours) of the storm event(s) sampled;

(2) The rainfall total (in inches) of the storm event which generated the sampled discharge;

(3) The duration between the storm event sampled and the end of the previous measurable storm event; and

(4) For snowmelt monitoring, the permittee shall identify the date of the sampling event.

In addition, the permittee shall maintain a monthly log documenting the amount of rainfall received at this facility on a daily basis. A summarization of this information shall also be submitted with the DMRs.

When a permittee is unable to collect storm water samples required in **Part I.A.2, 5, 6 and 7** or other applicable sections of the permit, documentation explaining the facility's inability to obtain a sample (including dates/times the outfalls were viewed and/or sampling was attempted), of no rain event, or of no "measurable" storm event shall be submitted with the DMR and also maintained with the SWPPP. Acceptable documentation includes, but is not limited to, NCDC weather station data, local weather station data, facility rainfall logs, and other appropriate supporting data.

c. Sampling Waiver.

When a permittee is unable to collect storm water samples required in **Parts I.A.2, 5, 6 and 7** or other applicable sections of this permit within a specified sampling period due to adverse climatic conditions, the permittee shall collect a substitute sample from a separate qualifying event in the next period and submit these data along with the data for the routine sample in that period. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions or create inaccessibility for personnel (and may include such things as local flooding, high winds, hurricane, tornadoes, electrical storms) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

d. Representative Discharges.

When a facility has two or more outfalls that discharge substantially identical effluents, based on similarities of the industrial activities, significant materials, size of drainage areas, and storm water management practices occurring within the drainage areas of the outfalls, the permittee may monitor the effluent of one of such outfalls and report that the quantitative data also apply to the substantially identical outfall(s) provided that: (1)

the representative outfall determination has been approved by DEQ prior to data submittal; and, (2) the permittee includes in the storm water pollution prevention plan a description of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents. The permittee shall include the following information in the SWPPP, and in any DMRs that are required to be submitted to the DEQ:

(1) The locations of the outfalls;

(2) Why the outfalls are expected to discharge substantially identical effluents, including evaluation of monitoring data, where available;

(3) Estimates of the size of the drainage area (in square feet) for each of the outfalls; and

(4) An estimate of the runoff coefficient of the drainage areas (low: under 40%; medium: 40% to 65%; high: above 65%)

e. Quarterly Visual Examination of Storm Water Quality.

(1) The permittee shall perform and document a quarterly visual examination of a storm water discharge associated with industrial activity from each outfall, except discharges exempted below. The examination(s) shall be made at least once in each of the following three-month periods: January through March, April through June, July through September, and October through December. The visual examination shall be made during daylight hours (e.g., normal working hours). If no storm event resulted in runoff from the facility during a monitoring quarter, the permittee is excused from visual monitoring for that quarter provided that documentation is included with the monitoring records indicating that no runoff occurred. The documentation shall be signed and certified in accordance with Part II.K of this permit.

(2) Visual examinations shall be made of samples collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging from the facility. The examination shall document observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. The examination shall be conducted in a well-lit area. No analytical tests are required to be performed on the samples. All samples (except snowmelt samples) shall be collected from the discharge resulting from a storm event that results in an actual discharge from the site (defined as a "measurable storm event"), and that occurs at least 72 hours from the previously measurable storm event. The 72-hour storm interval is waived if the permittee is able to document that less than a 72-hour interval is representative for local storm events during the sampling period. Where practicable, the same individual should carry out the collection and examination of discharges for the entire permit term. If no qualifying storm event resulted in runoff during daylight hours from the facility during a monitoring quarter, the permittee is excused from visual monitoring for that quarter provided that documentation is included with the monitoring records indicating that no qualifying storm event occurred during daylight hours that resulted in storm water runoff during that quarter. The documentation shall be signed and certified in accordance with Part II.K.

(3) The visual examination reports shall be maintained on-site with the Storm Water Pollution Prevention Plan (SWPPP). The report shall include the outfall location, the examination date and time, examination personnel, the nature of the discharge (i.e., runoff or snow melt), visual quality of the storm water discharge (including observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution), and probable sources of any observed storm water contamination.

(4) If the facility has two or more outfalls that discharge substantially identical effluents, based on similarities of the industrial activities, significant materials, size of drainage areas, and storm water management practices occurring within the drainage areas of the outfalls, the permittee may conduct visual monitoring on the effluent of just one of the outfalls and report that the observations also apply to the substantially identical outfall(s), provided that the storm water pollution prevention plan includes a description of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents. In addition, for each outfall that the permittee believes is representative, an estimate of the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area (i.e., low (under 40 percent), medium (40 to 65 percent), or high (above 65 percent)) shall be provided in the plan.

(5) When the permittee is unable to conduct the visual examination due to adverse climatic conditions, the permittee shall document the reason for not performing the visual examination and retain this documentation onsite with the records of the visual examinations. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions or create inaccessibility for personnel (and may include such things as local flooding, high winds, hurricane, tornadoes, electrical storms) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

f. Allowable Non-Storm Water Discharges

(1) The following non-storm water discharges are authorized by this permit:

(a) Discharges from fire fighting activities;

(b) Fire hydrant flushings;

(c) Potable water including water line flushings;

(d) Irrigation drainage;

(e) Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with manufacturer's instructions;

(f) Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);

(g) Routine external building wash down which does not use detergents;

(h) Uncontaminated ground water or spring water;

(i) Foundation or footing drains where flows are not contaminated with process materials;

(j) Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but NOT intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdown or drains); and

(k) Uncontaminated air conditioning or compressor condensate.

(2) Discharges of certain sources of nonstorm water are allowable discharges under this permit provided the permittee includes the following information in the SWPPP:

(a) Identification of each allowable nonstorm water source, except for flows from fire fighting activities;

(b) The location where the nonstorm water is likely to be discharged; and

(c) Descriptions of appropriate BMPs for each source.

(3) If mist blown from cooling towers is included as one of the allowable nonstorm water discharges from the facility, the permittee shall specifically evaluate the discharge for the presence of chemicals used in the cooling tower. The evaluation shall be included in the SWPPP.

g. Releases of Hazardous Substances or Oil in Excess of Reportable Quantities.

The discharge of hazardous substances or oil in the storm water discharge(s) from the facility shall be prevented or minimized in accordance with the storm water pollution prevention plan for the facility. This permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill. This permit does not relieve the permittee of the reporting requirements of 40 CFR 110, 40 CFR 117 and 40 CFR 302 or § 62.1-44.34:19 of the Code of Virginia. Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR 110, 40 CFR 117 or 40 CFR 302 occurs during a 24-hour period:

(1) The permittee is required to notify the DEQ in accordance with the requirements of Part II.G as soon as he or she has knowledge of the discharge;

(2) Where a release enters a municipal separate storm sewer system (MS4), the permittee shall also notify the owner or the MS4; and

(3) The storm water pollution prevention plan required by this permit shall be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan shall be modified where appropriate.

h. Water Quality Protection

The discharges authorized by this permit shall be controlled as necessary to meet applicable water quality standards. The permittee shall employ an iterative, BMP-based program to select, install, implement and maintain best management practices (BMPs) at the facility designed to minimize pollutants in the storm water discharges, and to address any exceedance of any applicable water quality standard, effluent limitation, or TMDL waste load allocation. DEQ expects that compliance with the conditions in this permit will control discharges as necessary to meet applicable water quality standards. If there is evidence indicating that the storm water discharges authorized by this permit are causing, have the reasonable potential to cause, or are contributing to an excursion above an applicable water quality standard, an excursion above a TMDL wasteload allocation, or are causing downstream pollution (as defined in § 62.1-44.3 of the Code of Virginia), DEQ may require the permittee to take corrective action in accordance with **Part I.E.2.i (2) and Part I.E.2.i (3)**, and include and implement appropriate controls in the SWPPP to correct the problem.

i. Corrective actions

(1) Data exceeding benchmarks concentration values.

(a) If the benchmark monitoring result exceeds the benchmark concentration value for that parameter, the permittee must review the SWPPP and modify it as necessary to address any deficiencies that caused the exceedance. Revisions to the SWPPP must be completed within 30 days after an exceedance is discovered. When BMPs need to be modified or added (distinct from regular preventive maintenance of existing BMPs described in **Part I.E.3.c**), implementation must be completed before the next anticipated storm event if possible, but no later than 60 days after the exceedance is discovered, or as otherwise provided or approved by the DEQ Piedmont Regional Office. In cases where construction is necessary to implement BMPs, the permittee shall include a schedule in the SWPPP that provides for the completion of the BMPs as expeditiously as practicable, but no later than three years after the exceedance is discovered. Where a construction compliance schedule is included in the SWPPP, the plan shall include appropriate nonstructural and/or temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent BMP. Any BMP modifications must be documented and dated, and retained with the SWPPP, along with the amount of time taken to modify the applicable BMPs or implement additional BMPs.

(b) Natural background pollutant levels. If the concentration of a pollutant exceeds a benchmark concentration value, and the permittee determines that exceedance of the benchmark is attributable solely to the presence of that pollutant in the natural background, corrective action is not required provided that:

(i) The concentration of the benchmark monitoring result is less than or equal to the concentration of that pollutant in the natural background;

(ii) The permittee documents and maintains with the SWPPP the supporting rationale for concluding that benchmark exceedances are in fact attributable solely to natural background pollutant levels. The supporting rationale shall include any data previously collected by the facility or others (including literature studies) that describe the levels of natural background pollutants in the facility's storm water discharges; and

(iii) The permittee notifies the DEQ Piedmont Regional Office on the DMR that the benchmark exceedances are attributable solely to natural background pollutant levels. Natural background pollutants include those substances that are naturally occurring in soils or groundwater. Natural background pollutants do not include legacy pollutants from earlier activity on the facility's site, or pollutants in run-on from neighboring sources which are not naturally occurring.

(2) Corrective actions. The permittee must take corrective action whenever:

(a) Routine facility inspections, comprehensive site compliance evaluations, inspections by local, state or federal officials, or any other process, observation or event result in a determination that modifications to the storm water control measures are necessary to meet the permit requirements; or

(b) There is any exceedance of an effluent limitation (including coal pile runoff), or TMDL wasteload allocation; or

(c) The DEQ Piedmont Regional Office determines, or the permittee becomes aware, that the storm water control measures are not stringent enough for the discharge to meet applicable water quality standards.

The permittee must review the SWPPP and modify it as necessary to address any deficiencies. Revisions to the SWPPP must be completed within 30 days following the discovery of the deficiency. When BMPs need to be modified or added (distinct from regular preventive maintenance of existing BMPs described in **Part I.E.3.c**), implementation must be completed before the next anticipated storm event if possible, but no later than 60 days after the deficiency is discovered, or as otherwise provided or approved by the DEQ Piedmont Regional Office. In cases where construction is necessary to implement BMPs, the permittee shall include a schedule in the SWPPP that provides for the completion of the BMPs as expeditiously as practicable, but no later than three years after the deficiency is discovered. Where a construction compliance schedule is included in the SWPPP, the plan shall include appropriate nonstructural and/or temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent BMP. The amount of time taken to modify a BMP or implement additional BMPs must be documented in the SWPPP.

Any corrective actions taken must be documented and retained with the SWPPP. Reports of corrective actions must be signed in accordance with Part II K.

(3) Follow-up monitoring and reporting. If at any time monitoring results indicate that discharges from the facility exceed an effluent limitation or a TMDL wasteload allocation, or the DEQ Piedmont Regional Office determines that discharges from the facility are causing or contributing to an exceedance of a water quality standard, immediate steps must be taken to eliminate the exceedances in accordance with the above **Part I.E.2.i.2** (Corrective actions). Within 30 calendar days of implementing the relevant corrective action(s) (or during the next qualifying runoff event, should none occur within 30 calendar days) follow-up monitoring must be undertaken to verify that the BMPs that were modified are effectively protecting water quality. Follow-up monitoring need only be conducted for pollutant(s) with prior exceedances unless there are reasons to believe that facility modifications may have reduced pollutant prevention or removal capacity for other pollutants of concern.

The follow-up monitoring data must be submitted to the DEQ Piedmont Regional Office no later than 30 days after the results are received. If the follow-up monitoring value does not exceed the effluent limitation or other relevant standard, no additional follow-up monitoring is required for this corrective action.

Should the follow-up monitoring indicate that the effluent limitation, TMDL wasteload allocation, water quality standard or other relevant standard is still being exceeded, an exceedance report must be submitted to the DEQ Piedmont Regional Office no later than 30 days after the follow-up monitoring results are received. The following information must be included in the report: permit number; facility name, address and location; receiving water; monitoring data from this and the preceding monitoring event(s); an explanation of the situation; description of what has been done and the intended actions (should the corrective actions not yet be complete) to further reduce pollutants in the discharge; and an appropriate contact name and phone number. Additional follow-up monitoring must be continued at an appropriate frequency, but no less often than quarterly, until the discharge no longer exceeds the standard.

j. Additional Requirements for Salt Storage.

Storage piles of salt or piles containing salt used for deicing or other commercial or industrial purposes shall be enclosed or covered to prevent exposure to precipitation. The permittee shall implement appropriate measures (e.g., good housekeeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile. All salt storage piles shall be located on an impervious surface. All runoff from the pile, and/or runoff that comes in contact with salt, including under drain systems, shall be collected and contained within a bermed basin lined with concrete or other impermeable materials, or within an underground storage tank(s), or within an above ground storage tank(s), or disposed of through a sanitary sewer (with the permission of the treatment facility). A combination of any or all of these methods may be used. In no case shall salt contaminated storm water be allowed to discharge directly to the ground or to state waters.

3. Storm Water Pollution Prevention Plan

A storm water pollution prevention plan (SWPPP) for the facility was required to be developed and implemented under the previous permit. The existing storm water pollution prevention plan shall be reviewed and modified, as appropriate, to conform to the requirements of this section. Permittees shall implement the provisions of the storm water pollution prevention plan as a condition of this permit.

The storm water pollution prevention plan requirements of this permit may be fulfilled, in part, by incorporating by reference other plans or documents such as a spill prevention control and countermeasure (SPCC) plan developed for the facility under Section 311 of the Clean Water Act, or best management practices (BMP) programs otherwise required for the facility, provided that the incorporated plan meets or exceeds the plan requirements of **Part I.E.3.b** (Contents of the Plan). All plans incorporated by reference into the storm water pollution prevention plan become enforceable under this permit. If a plan incorporated by reference does not contain all of the required elements of the SWPPP of **Part I.E.3.b** the permittee shall develop the missing SWPPP elements and include them in the required plan.

a. Deadlines for Plan Preparation and Compliance.

(1) The permittee shall prepare and implement the plan as expeditiously as practicable, but not later than 270 days from the effective date of the permit.

(2) Measures That Require Construction. In cases where construction is necessary to implement measures required by the plan, the plan shall contain a schedule that provides compliance with the plan as expeditiously as practicable, but no later than 3 years after the effective date of this permit. Where a construction compliance schedule is included in the plan, the schedule shall include appropriate nonstructural and/or temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure.

b. Contents of the Plan.

The contents of the SWPPP shall comply with the requirements listed below and those in **Part I.E.4.** The plan shall include, at a minimum, the following items:

(1) Pollution Prevention Team. The plan shall identify the staff individuals by name or title that comprise the facility's storm water pollution prevention team. The pollution prevention team is responsible for assisting the facility or plant manager in developing, implementing, maintaining, revising, and ensuring compliance with the facility's SWPPP. Specific responsibilities of each staff individual on the team shall be identified and listed.

(2) Site Description. The plan shall include the following:

(a) Activities at the Facility. A description of the nature of the industrial activities at the facility.

(b) General Location Map. A general location map (e.g., USGS quadrangle or other map) with enough detail to identify the location of the facility and the receiving waters within one mile of the facility.

(c) Site Map. A site map identifying the following:

(i) The size of the property (in acres);

(ii) The location and extent of significant structures and impervious surfaces (roofs, paved areas and other impervious areas);

(iii) Locations of all storm water conveyances including ditches, pipes, swales, and inlets, and the directions of storm water flow (use arrows to show which ways storm water will flow);

(iv) Locations of all existing structural and source control BMPs;

(v) Locations of all surface water bodies, including wetlands;

(vi) Locations of potential pollutant sources identified under **Part I.E.3.b(3)**;

(vii) Locations where significant spills or leaks identified under **Part I.E.3.b(4)** have occurred;

(viii) Locations of the following activities where such activities are exposed to precipitation: fueling stations; vehicle and equipment maintenance and/or cleaning areas; loading/unloading areas; locations used for the treatment, storage or disposal of wastes; liquid storage tanks; processing

and storage areas; access roads, rail cars and tracks; transfer areas for substances in bulk; and machinery;

(ix) Locations of storm water outfalls and an approximate outline of the area draining to each outfall, and location of municipal storm sewer systems, if the storm water from the facility discharges to them;

(x) Location and description of all non-storm water discharges;

(xi) Location of any storage piles containing salt used for deicing or other commercial or industrial purposes; and

(xii) Locations and sources of runon to the site from adjacent property, where the runon contains significant quantities of pollutants. The permittee shall include an evaluation with the SWPPP of how the quality of the storm water running onto the facility impacts the facility's storm water discharges.

(d) Receiving Waters and Wetlands. The name of all surface waters receiving discharges from the site, including intermittent streams, dry sloughs, and arroyos. Provide a description of wetland sites that may receive discharges from the facility. If the facility discharges through a municipal separate storm sewer system (MS4), identify the MS4 operator, and the receiving water to which the MS4 discharges.

(3) Summary of Potential Pollutant Sources. The plan shall identify each separate area at the facility where industrial materials or activities are exposed to storm water. Industrial materials or activities include, but are not limited to: material handling equipment or activities, industrial machinery, raw materials, industrial production and processes, intermediate products, byproducts, final products, and waste products. Material handling activities include, but are not limited to: the storage, loading and unloading, transportation, disposal, or conveyance of any raw material, intermediate product, final product or waste product. For each separate area identified, the description shall include:

(a) Activities in Area. A list of the activities (e.g., material storage, equipment fueling and cleaning, cutting steel beams); and

(b) Pollutants. A list of the associated pollutant(s) or pollutant constituents (e.g., crankcase oil, zinc, sulfuric acid, cleaning solvents, etc.) for each activity. The pollutant list shall include all significant materials handled, treated, stored or disposed that have been exposed to storm water in the three years prior to the date this SWPPP was prepared or amended. The list shall include any hazardous substances or oil at the facility.

(4) Spills and Leaks. The SWPPP shall clearly identify areas where potential spills and leaks that can contribute pollutants to storm water discharges can occur and their corresponding outfalls. The plan shall include a list of significant spills and leaks of toxic or hazardous pollutants that actually occurred at exposed areas, or that drained to a storm water conveyance during the three-year period prior to the date this SWPPP was prepared or amended. The list shall be updated if significant spills or leaks occur in exposed areas of the facility during the term of the permit. Significant spills and leaks include releases of oil or hazardous substances in excess of reportable quantities, and may also include releases of oil or hazardous substances that are not in excess of reporting requirements.

(5) Sampling Data. The plan shall include a summary of existing storm water discharge sampling data taken at the facility. The summary shall include, at a minimum, any data collected during the previous permit term.

(6) Storm Water Controls

(a) BMPs shall be implemented for all the areas identified in **Part I.E.3.b.(3)** (Summary of Potential Pollutant Sources) to prevent or control pollutants in storm water discharges from the facility. All reasonable steps shall be taken to control or address the quality of discharges from the site that may not originate at the facility. The SWPPP shall describe the type, location and implementation of all BMPs for each area where industrial materials or activities are exposed to storm water. Selection of BMPs shall take into consideration:

(i) That preventing storm water from coming into contact with polluting materials is generally more effective, and less costly, than trying to remove pollutants from storm water;

(ii) BMPs generally shall be used in combination with each other for most effective water quality protection;

(iii) Assessing the type and quantity of pollutants, including their potential to impact receiving water quality, is critical to designing effective control measures;

(iv) That minimizing impervious areas at the facility can reduce runoff and improve groundwater recharge and stream base flows in local streams (however, care must be taken to avoid ground water contamination);

(v) Flow attenuation by use of open vegetated swales and natural depressions can reduce in-stream impacts of erosive flows;

(vi) Conservation or restoration of riparian buffers will help protect streams from storm water runoff and improve water quality; and

(vii) Treatment interceptors (e.g., swirl separators and sand filters) may be appropriate in some instances to minimize the discharge of pollutants.

(b) Control Measures. The permittee shall implement the following types of BMPs to prevent and control pollutants in the storm water discharges from the facility, unless it can be demonstrated and documented that such controls are not relevant to the discharges (e.g., there are no storage piles containing salt).

(i) Good Housekeeping. The permittee shall keep clean all exposed areas of the facility that are potential sources of pollutants to storm water discharges. Typical problem areas include areas around trash containers, storage areas, loading docks, and vehicle fueling and maintenance areas. The plan shall include a schedule for regular pickup and disposal of waste materials, along with routine inspections for leaks and conditions of drums, tanks and containers. The introduction of raw, final or waste materials to exposed areas of the facility shall be minimized to the maximum extent practicable. The generation of dust, along with off-site vehicle tracking of raw, final or waste materials, or sediments, shall be minimized to the maximum extent practicable.

(ii) Eliminating and Minimizing Exposure. To the extent practicable, industrial materials and activities shall be located inside, or protected by a storm-resistant covering to prevent exposure to rain, snow, snowmelt, and runoff. Note: Eliminating exposure at all industrial areas may make the facility eligible for the "Conditional Exclusion for No Exposure" provision of 9 VAC 25-31-120 E, thereby eliminating the need to have storm water discharges permitted.

(iii) Preventive Maintenance. The permittee shall have a preventive maintenance program that includes regular inspection, testing, maintenance and repairing of all industrial equipment and systems to avoid breakdowns or failures that could result in leaks, spill and other releases. This program is in addition to the specific BMP maintenance required under **Part I.E.3.c** (Maintenance of BMPs).

(iv) Spill Prevention and Response Procedures. The plan shall describe the procedures that will be followed for preventing and responding to spills and leaks.

(A) Preventive measures include barriers between material storage and traffic areas, secondary containment provisions, and procedures for material storage and handling.

(B) Response procedures shall include notification of appropriate facility personnel, emergency agencies, and regulatory agencies, and procedures for stopping, containing and cleaning up spills. Measures for cleaning up hazardous material spills or leaks shall be consistent with applicable RCRA regulations at 40 CFR Part 264 and 40 CFR Part 265. Employees who may cause, detect or respond to a spill or leak shall be trained in these procedures and have necessary spill response equipment available. If possible, one of these individuals shall be a member of the Pollution Prevention Team.

(C) Contact information for individuals and agencies that must be notified in the event of a spill shall be included in the SWPPP, and in other locations where it will be readily available.

(v) Routine Facility Inspections. Facility personnel who possess the knowledge and skills to assess conditions and activities that could impact storm water quality at the facility, and who can also evaluate the effectiveness of BMPs shall regularly inspect all areas of the facility where industrial

materials or activities are exposed to storm water. These inspections are in addition to, or as part of, the comprehensive site evaluation required under **Part I.E.3.d**. At least one member of the Pollution Prevention Team shall participate in the routine facility inspections.

The inspection frequency shall be specified in the plan based upon a consideration of the level of industrial activity at the facility, but shall be a minimum of quarterly unless more frequent intervals are specified elsewhere in the permit or written approval is received from the DEQ Piedmont Regional Office for less frequent intervals. At least once each calendar year, the routine facility inspection must be conducted during a period when a storm water discharge is occurring.

Any deficiencies in the implementation of the SWPPP that are found shall be corrected as soon as practicable, but not later than within 30 days of the inspection, unless permission for a later date is granted in writing by the DEQ Piedmont Regional Office. The results of the inspections shall be documented in the SWPPP, along with the date(s) and description(s) of any corrective actions that were taken in response to any deficiencies or opportunities for improvement that were identified.

(vi) Employee Training. The permittee shall implement a storm water employee training program for the facility. The SWPPP shall include a schedule for all types of necessary training, and shall document all training sessions and the employees who received the training. Training shall be provided for all employees who work in areas where industrial materials or activities are exposed to storm water, and for employees who are responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance personnel, etc.). The training shall cover the components and goals of the SWPPP, and include such topics as spill response, good housekeeping, material management practices, BMP operation and maintenance, etc. The SWPPP shall include a summary of any training performed.

(vii) Sediment and Erosion Control. The plan shall identify areas at the facility that, due to topography, land disturbance (e.g., construction, landscaping, site grading), or other factors, have a potential for soil erosion. The permittee shall identify and implement structural, vegetative, and/or stabilization BMPs to prevent or control on-site and off-site erosion and sedimentation. Flow velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel if the flows would otherwise create erosive conditions.

(viii) Management of Runoff. The plan shall describe the storm water runoff management practices (i.e., permanent structural BMPs) for the facility. These types of BMPs are typically used to divert, infiltrate, reuse, or otherwise reduce pollutants in storm water discharges from the site. Structural BMPs may require a separate permit under § 404 of the CWA and the Virginia Water Protection Permit Program Regulation (9 VAC 25-210) before installation begins.

c. Maintenance of BMPs.

All BMPs identified in the SWPPP shall be maintained in effective operating condition. Storm water BMPs identified in the SWPPP shall be observed during active operation (i.e., during a storm water runoff event) to ensure that they are functioning correctly. Where discharge locations are inaccessible, nearby downstream locations shall be observed. The observations shall be documented in the SWPPP.

The SWPPP shall include a description of procedures and a regular schedule for preventive maintenance of all BMPs, and shall include a description of the back-up practices that are in place should a runoff event occur while a BMP is off-line. The effectiveness of nonstructural BMPs shall also be maintained by appropriate means (e.g., spill response supplies available and personnel trained, etc.).

If site inspections required by **Part I.E.3.b(6)(b)(v)** (Routine Facility Inspections) or **Part I.E.3.d** (Comprehensive Site Compliance Evaluation) identify BMPs that are not operating effectively, repairs or maintenance shall be performed before the next anticipated storm event. If maintenance prior to the next anticipated storm event is not possible, maintenance shall be scheduled and accomplished as soon as practicable. In the interim, back-up measures shall be employed and documented in the SWPPP until repairs or maintenance is complete. Documentation shall be kept with the SWPPP of maintenance and repairs of BMPs, including the date(s) of regular maintenance, date(s) of discovery of areas in need of repair or replacement, and for repairs, date(s) that the BMP(s) returned to full function, and the justification for any extended maintenance or repair schedules.

d. Comprehensive Site Compliance Evaluation.

The permittee shall conduct comprehensive site compliance evaluations at least once a year. The evaluations shall be done by qualified personnel who possess the knowledge and skills to assess conditions and activities that could impact storm water quality at the facility, and who can also evaluate the effectiveness of BMPs. The personnel conducting the evaluations may be either facility employees or outside constituents hired by the facility.

(1) Scope of the Compliance Evaluation. Evaluations shall include all areas where industrial materials or activities are exposed to storm water, as identified in **Part I.E.3.b(3)**. The personnel shall evaluate:

(a) Industrial materials, residue or trash that may have or could come into contact with storm water;

(b) Leaks or spills from industrial equipment, drums, barrels, tanks or other containers that have occurred within the past three years;

(c) Off-site tracking of industrial or waste materials or sediment where vehicles enter or exit the site;

(d) Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas;

(e) Evidence of, or the potential for, pollutants entering the drainage system;

(f) Evidence of pollutants discharging to surface waters at all facility outfalls, and the condition of and around the outfall, including flow dissipation measures to prevent scouring;

(g) Review of training performed, inspections completed, maintenance performed, quarterly visual examinations, and effective operation of BMPs;

(h) Results of both visual and any analytical monitoring done during the past year shall be taken into consideration during the evaluation.

(2) Based on the results of the evaluation, the SWPPP shall be modified as necessary (e.g., show additional controls on the map required by **Part I.E.3.b(2)(c)**; revise the description of controls required by **Part I.E.3.b(6)** to include additional or modified BMPs designed to correct problems identified). Revisions to the SWPPP shall be completed within 30 days following the evaluation, unless permission for a later date is granted in writing by the DEQ Piedmont Regional Office. If existing BMPs need to be modified or if additional BMPs are necessary, implementation shall be completed before the next anticipated storm event, if practicable, but not more than 60 days after completion of the comprehensive site evaluation, unless permission for a later date is granted in writing by the DEQ Piedmont Regional Office;

(3) Compliance Evaluation Report. A report shall be written summarizing the scope of the evaluation, name(s) of personnel making the evaluation, the date of the evaluation, and all observations relating to the implementation of the SWPPP, including elements stipulated in **Part I.E.3.d(1) (a) through (h)** above. Observations shall include such things as: the location(s) of discharges of pollutants from the site; location(s) of previously unidentified sources of pollutants; location(s) of BMPs that need to be maintained or repaired; location(s) of failed BMPs that need replacement; and location(s) where additional BMPs are needed. The report shall identify any incidents of noncompliance that were observed. Where a report does not identify any incidents of noncompliance, the report shall contain a certification that the facility is in compliance with the SWPPP and this permit. The report shall be signed in accordance with Part II.K and maintained with the SWPPP.

(4) Where compliance evaluation schedules overlap with routine inspections required under **Part I.E.3.b.(6)(b)(v)** the annual compliance evaluation may be used as one of the routine inspections.

e. Signature and Plan Review.

(1) Signature/Location. The SWPPP shall be signed in accordance with Part II K, dated, and retained on-site at the facility covered by this permit in accordance with Part II.B.2. All other changes to the SWPPP, and other permit compliance documentation, must be signed and dated by the person preparing the change or documentation.

(2) Availability. The permittee shall make the SWPPP, annual site compliance evaluation report, and other information available to DEQ upon request.

(3) Required Modifications. DEQ may notify the permittee at any time that the SWPPP, BMPs, or other components of the facility's storm water program do not meet one or more of the requirements of this permit. The notification shall identify specific provisions of the permit that are not being met, and may

include required modifications to the storm water program, additional monitoring requirements, and special reporting requirements. The permittee shall make any required changes to the SWPPP within 60 days of receipt of such notification, unless permission for a later date is granted in writing by DEQ, and shall submit a written certification to the Director that the requested changes have been made.

f. Maintaining an Updated SWPPP.

(1) The permittee shall review and amend the SWPPP as appropriate whenever:

(a) There is construction or a change in design, operation, or maintenance at the facility that has a significant effect on the discharge, or the potential for the discharge, of pollutants from the facility;

(b) Routine inspections or compliance evaluations determine that there are deficiencies in the BMPs;

(c) Inspections by local, state, or federal officials determine that modifications to the SWPPP are necessary;

(d) There is a spill, leak or other release at the facility; or

(e) There is an unauthorized discharge from the facility.

(2) SWPPP modifications shall be made within 30 calendar days after discovery, observation or event requiring a SWPPP modification. Implementation of new or modified BMPs (distinct from regular preventive maintenance of existing BMPs described in **Part I.E.3.c**) shall be initiated before the next storm event if possible, but no later than 60 days after discovery, or as otherwise provided or approved by the DEQ Piedmont Regional Office. The amount of time taken to modify a BMP or implement additional BMPs shall be documented in the SWPPP.

(3) If the SWPPP modification is based on a release or unauthorized discharge, include a description and date of the release, the circumstances leading to the release, actions taken in response to the release, and measures to prevent the recurrence of such releases. Unauthorized releases and discharges are subject to the reporting requirements of Part II.G of this permit.

4. Sector Specific Permit Requirements

In addition to the requirements of Part I.E.3, the plan shall include, at a minimum, the following items.

a. Site description.

(1) Site map. The site map shall identify where any of the following may be exposed to precipitation/surface runoff: processing and storage areas; access roads, rail cars and tracks; areas where substances are transferred in bulk; and operating machinery.

(2) Summary of potential pollutant sources. A description of the following sources and activities that have potential pollutants associated with them: loading, unloading and transfer of chemicals; outdoor storage of salt, pallets, coal, drums, containers, fuels, fueling stations; vehicle and equipment maintenance/cleaning areas; areas where the treatment, storage or disposal (on-site or off-site) of waste/wastewater occur; storage tanks and other containers; processing and storage areas; access roads, rail cars and tracks; areas where the transfer of substances in bulk occurs; and areas where machinery operates.

b. Storm water controls. Good housekeeping. The SWPPP shall include:

(1) A schedule for regular pickup and disposal of garbage and waste materials, or a description of other appropriate measures used to reduce the potential for the discharge of storm water that has come into contact with garbage or waste materials;

(2) Routine inspections of the condition of drums, tanks and containers for potential leaks.

(3) Plastic products manufacturing facilities shall describe and implement specific controls to minimize the discharge of plastic resin pellets in stormwater discharges from the facility. The following BMPs (or their equivalents) shall be considered in the SWPPP: minimizing spills; cleaning up of spills promptly and thoroughly; sweeping thoroughly; pellet capturing; employee education; and disposal precautions.

c. Benchmark monitoring and reporting requirements.

The permittee shall monitor their storm water discharges for the pollutants of concern listed in Tables 1 through 4. Sampling may be waived in accordance with Part I.E.2.c. Benchmark concentration values, as included in Table 1 through 4 of this section, are not effluent limitations. Exceedance of a benchmark

concentration does not constitute a violation of this permit and does not indicate that violation of a water quality standard has occurred; however, it does signal that modifications to the SWPPP are necessary, unless justification is provided in the comprehensive site compliance evaluation (Part I.E.3.d.). In addition, exceedance of benchmark concentrations may indicate the requirement for more specific pollutant prevention controls.

Table 1 – Benchmark Monitoring Requirements for **Outfall 901**	
Pollutants of Concern	**Benchmark Concentration**
Total Recoverable Zinc	120 µg/L
BOD_5	30 mg/L
COD	110 mg/L
Total Kjeldahl Nitrogen (TKN)	1.5 mg/L
Total Nitrogen	2.2 mg/L
Total Recoverable Iron	1.0 mg/L
Total Recoverable Cadmium	2.1 ug/L
Total Recoverable Copper	18 ug/L

Table 2 – Benchmark Monitoring Requirements for **Outfall 002**	
Pollutants of Concern	**Benchmark Concentration**
Total Recoverable Zinc	120 µg/L
Total Kjeldahl Nitrogen (TKN)	1.5 mg/L
Total Nitrogen	2.2 mg/L
Total Recoverable Iron	1.0 mg/L
Total Recoverable Copper	18 ug/L

Table 3 – Benchmark Monitoring Requirements for **Outfall 003**	
Pollutants of Concern	**Benchmark Concentration**
Total Recoverable Zinc	120 µg/L
BOD_5	30 mg/L
COD	110 mg/L
Total Kjeldahl Nitrogen (TKN)	1.5 mg/L
Total Nitrogen	2.2 mg/L
Total Recoverable Copper	18 ug/L

Table 4 – Benchmark Monitoring Requirements for **Outfall 004**	
Pollutants of Concern	**Benchmark Concentration**
Total Recoverable Zinc	120 µg/L
Total Kjeldahl Nitrogen (TKN)	1.5 mg/L
Total Nitrogen	2.2 mg/L
Total Recoverable Iron	1.0 mg/L
Total Recoverable Cadmium	2.1 ug/L
Total Recoverable Copper	18 ug/L

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring.

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.
2. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.
3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.

B. Records.

1. Records of monitoring information shall include:
   a. The date, exact place, and time of sampling or measurements;
   b. The individual(s) who performed the sampling or measurements;
   c. The date(s) and time(s) analyses were performed;
   d. The individual(s) who performed the analyses;
   e. The analytical techniques or methods used; and
   f. The results of such analyses.
2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. <u>Reporting Monitoring Results.</u>

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:

   DEQ Piedmont Regional Office
   4949-A Cox Road
   Glen Allen, VA 23060

2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.
3. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under Title 40 of the Code of Federal Regulations Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Department.
4. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information.

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports.

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges.

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or
2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges.

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II F; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II F, shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and
8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges.

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available

details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II I 2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the treatment works; and
4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:
   a. Any unanticipated bypass; and
   b. Any upset which causes a discharge to surface waters.
2. A written report shall be submitted within 5 days and shall contain:
   a. A description of the noncompliance and its cause;
   b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
   c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

   The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II I if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.
3. The permittee shall report all instances of noncompliance not reported under Parts II I 1 or 2, in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II I 2.

NOTE: The immediate (within 24 hours) reports required in Parts II G, H and I may be made to the Department's Piedmont Regional Office at (804) 527-5020 (voice) or (804) 527-5106 (fax). For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24-hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes.

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
   a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

      (1) After promulgation of standards of performance under Section 306 of Clean Water Act which are applicable to such source; or

      (2) After proposal of standards of performance in accordance with Section 306 of Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;
   b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies

to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or

c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements.

1. Applications. All permit applications shall be signed as follows:

a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

c. For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II K 1, or by a duly authorized representative of that person. A person is a duly authorized representative only if:

a. The authorization is made in writing by a person described in Part II K 1;

b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

c. The written authorization is submitted to the Department.

3. Changes to authorization. If an authorization under Part II K 2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of

Part II K 2 shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.

4. Certification. Any person signing a document under Parts II K 1 or 2 shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to Comply.

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply.

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit.

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State Law.

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II U), and "upset" (Part II V) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance.

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of solids or sludges.

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to Mitigate.

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense.

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass.

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II U 2 and U 3.
2. Notice
   a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.
   b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II I.
3. Prohibition of bypass.
   a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:
      (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
      (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
      (3) The permittee submitted notices as required under Part II U 2.

b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II U 3 a.

V. Upset.

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II V 2 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.
2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
   a. An upset occurred and that the permittee can identify the cause(s) of the upset;
   b. The permitted facility was at the time being properly operated;
   c. The permittee submitted notice of the upset as required in Part II I; and
   d. The permittee complied with any remedial measures required under Part II S.
3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry.

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions.

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of permits.

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II Y 2, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.

2. As an alternative to transfers under Part II Y 1, this permit may be automatically transferred to a new permittee if:
   a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;
   b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
   c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II Y 2 b.

Z. Severability.

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

ATTACHMENT A
DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY CRITERIA MONITORING

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL [1]	REPORTING RESULTS	SAMPLE TYPE[2]	SAMPLE FREQUENCY
METALS						
7440-36-0	Antimony, dissolved	(3)	1.4		G or C	1/5 YR
7440-38-2	Arsenic, dissolved	(3)	1.0		G or C	1/5 YR
7440-39-3	Barium, dissolved	(3)	200		G or C	1/5 YR
7440-43-9	Cadmium, dissolved	(3)	0.3		G or C	1/5 YR
16065-83-1	Chromium III, dissolved [8]	(3)	3.6		G or C	1/5 YR
18540-29-9	Chromium VI, dissolved [8]	(3)	1.6		G or C	1/5 YR
7440-50-8	Copper, dissolved	(3)	0.50		G or C	1/5 YR
7439-89-6	Iron, dissolved	(3)	30		G or C	1/5 YR
7439-92-1	Lead, dissolved	(3)	0.50		G or C	1/5 YR
7439-96-5	Manganese, dissolved	(3)	5.0		G or C	1/5 YR
7439-97-6	Mercury, dissolved	(3)	1.0		G or C	1/5 YR
7440-02-0	Nickel, dissolved	(3)	0.94		G or C	1/5 YR
7782-49-2	Selenium, Total Recoverable	(3)	2.0		G or C	1/5 YR
7440-22-4	Silver, dissolved	(3)	0.20		G or C	1/5 YR
7440-28-0	Thallium, dissolved	(4)	(5)		G or C	1/5 YR
7440-66-6	Zinc, dissolved	(3)	3.6		G or C	1/5 YR
PESTICIDES/PCB'S						
309-00-2	Aldrin	608	0.05		G or C	1/5 YR
57-74-9	Chlordane	608	0.2		G or C	1/5 YR
2921-88-2	Chlorpyrifos (synonym = Dursban)	(4)	(5)		G or C	1/5 YR
72-54-8	DDD	608	0.1		G or C	1/5 YR
72-55-9	DDE	608	0.1		G or C	1/5 YR
50-29-3	DDT	608	0.1		G or C	1/5 YR
8065-48-3	Demeton	(4)	(5)		G or C	1/5 YR
333-41-5	Diazinon	(4)	(5)		G or C	1/5 YR

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL [1]	REPORTING RESULTS	SAMPLE TYPE[2]	SAMPLE FREQUENCY
60-57-1	Dieldrin	608	0.1		G or C	1/5 YR
959-98-8	Alpha-Endosulfan	608	0.1		G or C	1/5 YR
33213-65-9	Beta-Endosulfan	608	0.1		G or C	1/5 YR
1031-07-8	Endosulfan Sulfate	608	0.1		G or C	1/5 YR
72-20-8	Endrin	608	0.1		G or C	1/5 YR
7421-93-4	Endrin Aldehyde	(4)	(5)		G or C	1/5 YR
86-50-0	Guthion	(4)	(5)		G or C	1/5 YR
76-44-8	Heptachlor	608	0.05		G or C	1/5 YR
1024-57-3	Heptachlor Epoxide	(4)	(5)		G or C	1/5 YR
319-84-6	Hexachlorocyclohexane Alpha-BHC	608	(5)		G or C	1/5 YR
319-85-7	Hexachlorocyclohexane Beta-BHC	608	(5)		G or C	1/5 YR
58-89-9	Hexachlorocyclohexane Gamma-BHC or Lindane	608	(5)		G or C	1/5 YR
143-50-0	Kepone	(9)	(5)		G or C	1/5 YR
121-75-5	Malathion	(4)	(5)		G or C	1/5 YR
72-43-5	Methoxychlor	(4)	(5)		G or C	1/5 YR
2385-85-5	Mirex	(4)	(5)		G or C	1/5 YR
56-38-2	Parathion	(4)	(5)		G or C	1/5 YR
1336-36-3	PCB Total	608	7.0		G or C	1/5 YR
8001-35-2	Toxaphene	608	5.0		G or C	1/5 YR
BASE NEUTRAL EXTRACTABLES						
83-32-9	Acenaphthene	625	10.0		G or C	1/5 YR
120-12-7	Anthracene	625	10.0		G or C	1/5 YR
92-87-5	Benzidine	(4)	(5)		G or C	1/5 YR
56-55-3	Benzo (a) anthracene	625	10.0		G or C	1/5 YR
205-99-2	Benzo (b) fluoranthene	625	10.0		G or C	1/5 YR
207-08-9	Benzo (k) fluoranthene	625	10.0		G or C	1/5 YR
50-32-8	Benzo (a) pyrene	625	10.0		G or C	1/5 YR
111-44-4	Bis 2-Chloroethyl Ether	(4)	(5)		G or C	1/5 YR
108-60-1	Bis 2-Chloroisopropyl Ether	(4)	(5)		G or C	1/5 YR

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL [1]	REPORTING RESULTS	SAMPLE TYPE[2]	SAMPLE FREQUENCY
85-68-7	Butyl benzyl phthalate	625	10.0		G or C	1/5 YR
91-58-7	2-Chloronaphthalene	(4)	(5)		G or C	1/5 YR
218-01-9	Chrysene	625	10.0		G or C	1/5 YR
53-70-3	Dibenz(a,h)anthracene	625	20.0		G or C	1/5 YR
84-74-2	Dibutyl phthalate (synonym = Di-n-Butyl Phthalate)	625	10.0		G or C	1/5 YR
95-50-1	1,2-Dichlorobenzene	624	10.0		G or C	1/5 YR
541-73-1	1,3-Dichlorobenzene	624	10.0		G or C	1/5 YR
106-46-7	1,4-Dichlorobenzene	624	10.0		G or C	1/5 YR
91-94-1	3,3-Dichlorobenzidine	(4)	(5)		G or C	1/5 YR
84-66-2	Diethyl phthalate	625	10.0		G or C	1/5 YR
117-81-7	Bis-2-ethylhexyl phthalate	625	10.0		G or C	1/5 YR
131-11-3	Dimethyl phthalate	(4)	(5)		G or C	1/5 YR
121-14-2	2,4-Dinitrotoluene	625	10.0		G or C	1/5 YR
122-66-7	1,2-Diphenylhydrazine	(4)	(5)		G or C	1/5 YR
206-44-0	Fluoranthene	625	10.0		G or C	1/5 YR
86-73-7	Fluorene	625	10.0		G or C	1/5 YR
118-74-1	Hexachlorobenzene	(4)	(5)		G or C	1/5 YR
87-68-3	Hexachlorobutadiene	(4)	(5)		G or C	1/5 YR
77-47-4	Hexachlorocyclopentadiene	(4)	(5)		G or C	1/5 YR
67-72-1	Hexachloroethane	(4)	(5)		G or C	1/5 YR
193-39-5	Indeno(1,2,3-cd)pyrene	625	20.0		G or C	1/5 YR
78-59-1	Isophorone	625	10.0		G or C	1/5 YR
98-95-3	Nitrobenzene	625	10.0		G or C	1/5 YR
62-75-9	N-Nitrosodimethylamine	(4)	(5)		G or C	1/5 YR
621-64-7	N-Nitrosodi-n-propylamine	(4)	(5)		G or C	1/5 YR
86-30-6	N-Nitrosodiphenylamine	(4)	(5)		G or C	1/5 YR
129-00-0	Pyrene	625	10.0		G or C	1/5 YR
120-82-1	1,2,4-Trichlorobenzene	625	10.0		G or C	1/5 YR

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL [1]	REPORTING RESULTS	SAMPLE TYPE[2]	SAMPLE FREQUENCY
VOLATILES						
107-02-8	Acrolein	(4)	(5)		G	1/5 YR
107-13-1	Acrylonitrile	(4)	(5)		G	1/5 YR
71-43-2	Benzene	624	10.0		G	1/5 YR
75-25-2	Bromoform	624	10.0		G	1/5 YR
56-23-5	Carbon Tetrachloride	624	10.0		G	1/5 YR
108-90-7	Chlorobenzene (synonym = monochlorobenzene)	624	50.0		G	1/5 YR
124-48-1	Chlorodibromomethane	624	10.0		G	1/5 YR
67-66-3	Chloroform	624	10.0		G	1/5 YR
75-09-2	Dichloromethane (synonym = methylene chloride)	624	20.0		G	1/5 YR
75-27-4	Dichlorobromomethane	624	10.0		G	1/5 YR
107-06-2	1,2-Dichloroethane	624	10.0		G	1/5 YR
75-35-4	1,1-Dichloroethylene	624	10.0		G	1/5 YR
156-60-5	1,2-trans-dichloroethylene	(4)	(5)		G	1/5 YR
78-87-5	1,2-Dichloropropane	(4)	(5)		G	1/5 YR
542-75-6	1,3-Dichloropropene	(4)	(5)		G	1/5 YR
100-41-4	Ethylbenzene	624	10.0		G	1/5 YR
74-83-9	Methyl Bromide	(4)	(5)		G	1/5 YR
79-34-5	1,1,2,2-Tetrachloroethane	(4)	(5)		G	1/5 YR
127-18-4	Tetrachloroethylene	624	10.0		G	1/5 YR
10-88-3	Toluene	624	10.0		G	1/5 YR
79-00-5	1,1,2-Trichloroethane	(4)	(5)		G	1/5 YR
79-01-6	Trichloroethylene	624	10.0		G	1/5 YR
75-01-4	Vinyl Chloride	624	10.0		G	1/5 YR
RADIONUCLIDES						
	Beta Particle & Photon Activity (mrem/yr)	(4)	(5)		G or C	1/5 YR
	Gross Alpha Particle Activity (pCi/L)	(4)	(5)		G or C	1/5 YR
	Combined Radium 226 and 228	(4)	(5)		G or C	1/5 YR
	Uranium	(4)	(5)		G or C	1/5 YR

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL [1]	REPORTING RESULTS	SAMPLE TYPE[2]	SAMPLE FREQUENCY
ACID EXTRACTABLES [6]						
95-57-8	2-Chlorophenol	625	10.0		G or C	1/5 YR
120-83-2	2,4 Dichlorophenol	625	10.0		G or C	1/5 YR
105-67-9	2,4 Dimethylphenol	625	10.0		G or C	1/5 YR
51-28-5	2,4-Dinitrophenol	(4)	(5)		G or C	1/5 YR
534-52-1	2-Methyl-4,6-Dinitrophenol	(4)	(5)		G or C	1/5 YR
25154-52-3	Nonylphenol	(5)	(5)		G or C	1/5 YR
87-86-5	Pentachlorophenol	625	50.0		G or C	1/5 YR
108-95-2	Phenol	625	10.0		G or C	1/5 YR
88-06-2	2,4,6-Trichlorophenol	625	10.0		G or C	1/5 YR
MISCELLANEOUS						
16887-00-6	Chlorides	(4)	(5)		C	1/5 YR
7782-50-5	Chlorine, Total Residual	(4)	100		G	1/5 YR
57-12-5	Cyanide, Free	(4)	10.0		G	1/5 YR
94-75-7	2,4 Dichlorophenoxy acetic acid (synonym = 2,4-D)	(4)	(5)		G or C	1/5 YR
N/A	Foaming Agents (as MBAS)	(4)	(5)		G	1/5 YR
7783-06-4	Hydrogen Sulfide	(4)	(5)		G	1/5 YR
14797-55-8	Nitrate as N (mg/L)	(4)	(5)		C	1/5 YR
N/A	Sulfate (mg/L)	(4)	(5)		C	1/5 YR
N/A	Total Dissolved Solids (mg/L)	(4)	(5)		C	1/5 YR
60-10-5	Tributyltin [7]	NBSR 85-3295	(5)		G or C	1/5 YR
93-72-1	2-(2,4,5-Trichlorophenoxy) propionic acid (synonym = Silvex)	(4)	(5)		G or C	1/5 YR
471-34-1	Hardness (mg/L as $CaCO_3$)	(4)	(5)		G or C (10)	1/5 YR

_____

Name of Principal Exec. Officer or Authorized Agent/Title

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Signature of Principal Officer or Authorized Agent/Date

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. Sec. 1001 and 33 U.S.C. Sec. 1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

FOOTNOTES:

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

The quantification levels indicated for the metals are actually Specific Target Values developed for this permit. The Specific Target Value is the approximate value that may initiate a wasteload allocation analysis. Target values are not wasteload allocations or effluent limitations. The Specific Target Values are subject to change based on additional information such as hardness data, receiving stream flow, and design flows.

Units for the quantification level are micrograms/liter unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained.

(2) Sample Type

G = Grab = An individual sample collected in less than 15 minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported. For grab metals samples, the individual samples shall be filtered and preserved immediately upon collection.

C = Composite = A 24-hour composite unless otherwise specified. The composite shall be a combination of individual samples, taken proportional to flow, obtained at hourly or smaller time intervals. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over a 24-hour period.

(3) A specific analytical method is not specified; however a target value for each metal has been established. An appropriate method to meet the target value shall be selected from the following list of EPA methods (or any approved method presented in 40 CFR Part 136). If the test result is less than the method QL, a "<[QL]" shall be reported where the actual analytical test QL is substituted for [QL].

Metal	**Analytical Method**
Antimony	1638; 1639
Arsenic	1632
Chromium (8)	1639
Cadmium	1637; 1638; 1639; 1640
Chromium VI	1639
Copper	1638; 1640
Lead	1637; 1638; 1640
Mercury	1631
Nickel	1638; 1639; 1640
Selenium	1638; 1639
Silver	1638
Zinc	1638; 1639

(4) Any approved method presented in 40 CFR Part 136.

(5) The QL is at the discretion of the permittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

(6) Testing for phenols requires continuous extraction.

(7) Analytical Methods: NBSR 85-3295 or DEQ's approved analysis for Tributyltin may also be used [See A Manual for the Analysis of Butyltins in Environmental Systems by the Virginia Institute of Marine Science, dated November 1996].

(8) Both Chromium III and Chromium VI may be measured by the total chromium analysis. If the result of the total chromium analysis is less than or equal to the lesser of the Chromium III or Chromium VI method QL, the results for both Chromium III and Chromium VI can be reported as "<[QL]", where the actual analytical test QL is substituted for [QL].

(9) The lab may use SW846 Method 8270D provided the lab has an Initial Demonstration of Capability, has passed a PT for Kepone, and meets the acceptance criteria for Kepone as given in Method 8270D

(10) The sample type for Hardness (as $CaCO_3$) shall match the sample type selected for Dissolved Metals.